



Montana Office of Public Instruction
Linda McCulloch, Superintendent
In-state toll free 1-888-231-9393
www.opi.mt.gov/IndianEd

Mathematics Lesson Plan

Graphing Native American Populations

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Grade 5: Duration 1 - 60 minute lesson

Stage 1 Desired Results

Established Goals:

Montana Content Standards: Standard 6 Benchmark 2 – Students construct, read, and interpret displays of data, including graphs.

Essential Understanding 1- There is a great diversity among the 12 tribal Nations of Montana in their languages, cultures, histories, and governments. Each nation has a distinct and unique cultural heritage that contributes to modern Montana.

Essential Understanding 4- Reservations are lands that have been reserved by the tribes for their own use through treaties, statutes, and executive orders and were not “given” to them.

Essential Understanding 5- Federal policies, put into place throughout American history, have affected Indian people and still shape who they are today.

Understandings:

1. The number of enrolled members of each tribe living on the reservation compared to those living off of the reservation.

Essential Questions:

1. How many enrolled members of each tribe live on the reservations?
2. How many enrolled members of each tribe live off of the reservations?
3. What is the total population of each of the reservations represented both living on or off of the reservation?
4. What is the total Native American population in the state of Montana given the information you have?

Students will be able to...

1. Design a graph using appropriate labels, key, scale, and title.
2. Compare populations of the reservations for those living on, off, or combined.

Students will know...

1. The populations of the Blackfeet, Crow, Flathead, Ft. Belknap, and Northern Cheyenne Reservations.
2. How to correctly input data into a graph using appropriate labels, key, scale, and title.

Stage 2 Assessment Evidence

- Finished product will be a complete double bar graph representing five reservations and their enrolled member population that live on the reservation and the number of enrolled members living off of the reservations.
- On the back of the graph, students will answer the Essential Questions from above. Refer to Reservation Populations (attached at the end of this lesson) for answers.



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Stage 3 Learning Plan

Learning Activities:

- Download the publication at <http://www.opi.mt.gov/pdf/IndianEd/Resources/MTIndiansHistoryLocation.pdf>
- Share with the students on a projector or make copies for groups to share as you read through it.
- As you read through the information, stop periodically and check for understanding by asking questions about the population, history, land amount, or other interesting facts of a tribe you've just read about.
- Upon completing the reading, discuss populations on and off of the reservation and talk about why they would leave the reservation. This information can be found under Montana's Urban Indians, pages 62-65. (i.e. jobs are hard to come by on the reservation.)
- Handout the graph paper and a copy of reservation populations (below) to each student.
- Explain to the students that they are going to design a double bar graph comparing those living on and those living off of the reservations. Let them know they are going to need to use 2 coloring tools, one for each group.
- The finished product will be a finished double bar graph representing the 5 reservations and their enrolled member population that live on the reservation and the number of enrolled members living off of the reservations.
- On the back of the graph, have students answer the Essential Questions from above. Refer to Reservation Populations for answers.

Resources:

- <http://www.opi.mt.gov/pdf/IndianEd/Resources/MTIndiansHistoryLocation.pdf>
- <http://www.opi.mt.gov/IndianEd/>

Materials/Resources Needed:

- Copies of the OPI publication if unable to display on a projector.
- Copies of reservation populations (below) for each student.
- Graph paper
- Coloring tools
- Rulers
- Pencils

Background Knowledge

Students will need to know...

- How to make a double bar graph using appropriate labels, key, scale and title.
- The locations of the Montana reservations.

Reservation Populations

Blackfeet Reservation

Enrolled members living on or near the Blackfeet Reservation	8,485
Enrolled members living off the Blackfeet Reservation	<u>6,633</u>
Total number of enrolled Tribal members	15,118

Crow Reservation

Tribal members living on or near the Crow Reservation	7,153
Enrolled members living off the Crow Reservation	<u>3,180</u>
Total number of enrolled Tribal members	10,333

Flathead Reservation

Enrolled members living on or near the Flathead Reservation	4,244
Enrolled members living off the Flathead Reservation	<u>2,717</u>
Total number of enrolled Tribal members	6,961

Fort Belknap Reservation

Enrolled members living on or near the Fort Belknap Reservation	5,771
Enrolled members living off the Fort Belknap Reservation	<u>1,532</u>
Total number of enrolled tribal members	7,303

Northern Cheyenne Reservation

Enrolled members living on or Near the Northern Cheyenne Reservation	4,199
Enrolled members living off the Northern Cheyenne Reservation	<u>3,175</u>
Total number of enrolled tribal members (approximate)	7,374